

OpenDeploy® Reference Release 5.5.1

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http://www.interwoven.com
Printed in the United States of America
Release 5.5.1
Part # 90-00-20-21-00-551-750

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About This Book

OpenDeploy Reference is a manual that contains reference material on OpenDeploy® configuration DTDs and command-line tools (CLTs). Use this information to find information on a specific DTD or CLT quickly and easily.

If you are using OpenDeploy in conjunction with TeamSite[®], you should also know TeamSite functionality and terminology. Many of the operations described in this manual require *root* or *Administrator* access to the OpenDeploy host server. If you do not have root or Administrator access to the OpenDeploy host server, consult your system administrator.

This manual uses the term "Windows" to indicate any supported version of the Microsoft Windows operating system, such as Windows NT® or Windows® 2000.

This manual uses the term "UNIX" to indicate any supported flavor of the UNIX® operating system.

Windows: Users should be familiar with either IIS or Netscape[®] Web servers, and with basic Windows server operations such as adding users and modifying Access Control Lists (ACLs).

UNIX: Users of this manual should be familiar with basic UNIX commands and be able to use an editor such as emacs or vi.

It is also helpful to be familiar with regular expression syntax. If you are not familiar with regular expressions, consult a reference manual such as *Mastering Regular Expressions* by Jeffrey Friedl.



Notation Conventions

This manual uses the following notation conventions:

Convention	Definition and Usage
Bold	Text that appears in a GUI element (for example, a menu item, button, or element of a dialog box) and command names are shown in bold. For example:
	Click Edit File in the Button Bar.
Italic	Book titles appear in italics.
	Terms are italicized the first time they are introduced.
	Important information may be italicized for emphasis.
Monospace	Commands, command-line output, and file names are in monospace type. For example:
	The iwodstart command-line tool starts an OpenDeploy deployment task.
Monospaced italic	Monospaced italics are used for command-line variables. For example:
	iwodstart deployment
	This means that you must replace <i>deployment</i> with your values.
Monospaced bold	Monospaced bold represents information you enter in response to system prompts. The character that appears before a line of user input represents the command prompt, and should not be typed. For example:
	iwodstart
Monospaced bold italic	Monospaced bold italic text is used to indicate a variable in user input. For example:
	iwodstart deployment
	means that you must insert the values of <i>deployment</i> when you enter this command.
[]	Square brackets surrounding a command-line argument mean that the argument is optional.

Convention	Definition and Usage
	Vertical bars separating command-line arguments mean that only one of the arguments can be used.

Other OpenDeploy Documentation

In addition to this Administration Guide, OpenDeploy includes the following documentation components:

- OpenDeploy Administration Guide
- OpenDeploy Release Notes
- Online help

OpenDeploy Administration Guide

OpenDeploy Administration Guide is a guide to install, configure, and use OpenDeploy [®]. It is primarily intended for webmasters, system administrators, and those involved in deploying content between development servers and production servers.

OpenDeploy Release Notes

OpenDeploy Release Notes contains supplemental and late-breaking information regarding OpenDeploy not found in the other documentation. Refer to the OpenDeploy Release Notes for information regarding supported platforms, installation requirements, new features and enhancements, and known issues.

Online Help

OpenDeploy includes online help topics associated with each window in the OpenDeploy user interface. You can access the associated help topic by clicking the Help link in the upper right-hand corner of the window. The help topic will appear in a separate browser window that you can move and resize. You can display a navigation panel that provides you access to all the help topics by clicking the Show Navpane button. This panel provides you the ability to access help topics through the contents, index, and by using keyword searching.



Chapter 1

Deploy Server Configuration DTD

The deploy server configuration DTD specifies the XML rules for the base server configuration file on hosts with the base server software installed, and for the receiver configuration file on hosts with the receiver software installed. This file defines settings for server configurations, including what communications ports are being used to communicate with the other OpenDeploy software components. The base server and receiver files also contains default settings that apply if those settings are not defined in the deployment configuration file.

Deploy Server Configuration DTD

This section contains the XML code contained within the deploy server configuration DTD.

```
The Deploy Server Configuration DTD
Note: The following sub-elements are *required*:
      - allowedHosts

    localNode

    listenerProperties

      - schedulerProperties
  <!ELEMENT deployServerConfiguration ( localNode,
                      oldOdHome?,
                      initiatorProperties?,
                      listenerProperties,
                      transportProperties?,
                      teamsiteProperties?,
                      schedulerProperties,
                      allowedHosts,
                      logRules?
                     ) >
```



```
The following properties define what incoming connections
   are allowed or denied and what port to bind on, and other
   miscellaneous listener/transport parameters.
   NOTE: The following specification is syntactically correct
        as far as XML is concerned, but not expressive enough
        for the purposes of OpenDeploy.
        Thus, please be aware that while all the ssl*
        attributes and keyFile attribute are optional - if you
        decide to use the ssl* attributes you MUST use ALL of
        them and CANNOT use the keyFile attribute.
        Conversely, if you decide to use the keyFile attribute,
        you CANNOT use ANY of the ssl* attributes.
   <!ELEMENT localNode EMPTY >
<!ATTLIST localNode
    host
                 CDATA
                                      #REOUIRED
    sslCertificate
                 CDATA
                                      #IMPLIED
    sslPrivateKev
               CDATA
                                      #TMPLTED
    sslCaCertificate CDATA
                                      #IMPLIED
    sslCiphers
               CDATA
                                      #IMPLIED
    sslVerifyPeer (require|request|none)
                                      "none"
                                      #IMPLIED
    keyFile
                 CDATA
    >
This element/attribute must be defined to enable
   communications with a [supported] older version of
   the OpenDeploy product.
   The 'path' attribute should define the base location of the
   previous version of OpenDeploy on *this* node.
   <!ELEMENT oldOdHome EMPTY>
<!ATTLIST oldOdHome
    path
                   CDATA
                              #REOUIRED
<!ELEMENT initiatorProperties EMPTY >
<!ATTLIST initiatorProperties
                   (InterwovenOpenDeploy) #FIXED "InterwovenOpenDeploy"
    name
```

```
pendSessions
                    (ves|no)
                                 "no"
<!ELEMENT listenerProperties EMPTY >
<!ATTLIST listenerProperties
                     (InterwovenOpenDeploy) #FIXED "InterwovenOpenDeploy"
    name
    bindPort
                     CDATA
                                 #REOUIRED
<!ELEMENT transportProperties EMPTY >
<!ATTLIST transportProperties
                                 #FIXED "od"
    name
                     (od)
    bufferSize
                     CDATA
                                 #TMPLTED
The version attribute of the teamsiteProperties element
    is used to indicate the TeamSite version that OpenDeploy
    will be communicating for a TeamSite based deployment.
    If the OpenDeploy and TeamSite versions are identical, there
    is no need to include this (the teamsiteProperties) element,
    however, if the TeamSite version number is less than the
    OpenDeploy version, this element and its attribute are
    required to allow OpenDeplov to perform TeamSite based
    deployments.
    <!ELEMENT teamsiteProperties EMPTY >
<!ATTLIST teamsiteProperties
    version
                     CDATA
                                #IMPLIED
    >
Please read documentation carefully if you decide to alter
    any of the attribute settings used in your odbase.xml or
    odrcvr.xml file from those settings used in the initially
    installed example copy.
    Failure to keep these attributes consistant with one another
    could result in exception error messages being dumped into
    the server log file, and failure of the service to start.
    <!ELEMENT schedulerProperties EMPTY>
<!ATTLIST schedulerProperties
    jdbcDriverClass
                     CDATA
                                 #IMPLIED
    dbUrl
                     CDATA
                                 #IMPLIED
    dbUser
                     CDATA
                                 #IMPLIED
    dbPassword
                     CDATA
                                 #IMPLIED
```



```
isClearPassword (yes|no)
The following restriction rules allow the master server to
   control what is allowed or not allowed to be done.
   <!ELEMENT allowedHosts (node+) >
<!ELEMENT node (allowedDirectories+) >
<!ATTLIST node
    host
                  CDATA
                            #REQUIRED
    keyFile
                  CDATA
                            #IMPLIED
<!ELEMENT allowedDirectories (path+) >
<!ELEMENT path EMPTY>
<!ATTLIST path
    name
                  CDATA
                            #REOUIRED
    >
Logfile management
   Note: maxBytes must be specified with a number and an
        indication of the unit. E.g. "32mb", "22kb".
   Note: the default directory for storing logfiles is
        $IWODHOME/log/.
   <!ELEMENT logRules EMPTY>
<!ATTLIST logRules
    maxBytes
                 CDATA
                                       #IMPLIED
    directory
                 CDATA
                                       #IMPLIED
    level
                 (verbose|normal)
                                       "verbose"
    >
```

Descriptions of Elements and Attributes

The following section explains in detail the elements and attributes contained in the deploy server DTD.

deployServerConfiguration

The deployServerConfiguration element is the root container for the elements to define the host OpenDeploy server.

DTD Definition

In the deploy server configuration DTD, the deployServerConfiguration element is defined as:

```
<!ELEMENT deployServerConfiguration (localNode oldOdHome?
initiatorProperties? listenerProperties transportProperties?
teamsiteProperties schedulerProperties allowedHosts logRules?) >
```

Associated Child Elements

The following child elements are associated with the deployServerConfiguration element:

- localNode see page 16.
- oldOdHome see page 17.
- initiatorProperties page 18.
- listenerProperties page 19.
- transportProperties page 19.
- teamsiteProperties page 20.
- schedulerProperties page 21.
- allowedHosts see page 22.
- logRules see page 24.



localNode

The localNode element defines the identity of the server host, and encryption methods and values for deployments.

DTD Definition

In the deploy server configuration DTD, the localNode element is defined as:

```
<!ELEMENT localNode EMPTY >
<!ATTLIST localNode
   host
                            CDATA
                                                     #REOUIRED
      (sslCertificate
                            CDATA
                                                     #TMPLTED
       sslPrivateKey
                            CDATA
                                                     #IMPLIED
       sslCaCertificate
                            CDATA
                                                     #IMPLIED
       sslCiphers
                            CDATA
                                                     #IMPLIED
       sslVerifyPeer
                            (require|request|none)
                                                     "none")
   (keyFile
                            CDATA
                                                     #IMPLIED)
```

Associated Attributes

The following attributes are associated with the localNode element:

 host — specifies the fully qualified DNS host name or IP address of the OpenDeploy server. For example:

```
host="venus.mycompany.com" or
host="114.342.23.21"
```

- sslCertificate specifies the absolute path to the secure sockets layer (SSL) public key certificate. This attribute is required for using asymmetric key encryption.
- sslPrivateKey specifies the absolute path to the SSL private key certificate. This attribute is required for using asymmetric key encryption.
- sslCaCertificate specifies the absolute path to the certificate authority. This allows
 OpenDeploy to authenticate the source from which the public and private key pairs for the source
 and target hosts are derived. This attribute is required for using asymmetric key encryption.

• sslCiphers — specifies the SSL ciphers to use. Multiple ciphers must be separated by a colon (":"). For example:

```
sslCiphers="EDH-DSS-DES-CBC3-SHA:EXP-EDH-DSS-DES-CBC-SHA"
```

This attribute is optional for using with asymmetric key encryption.

- sslVerifyPeer indicates which of the following conditions apply in regards to the verification that the certificate authority for each public and private key pairs comes from the same source. This source is the value specified in the sslCaCertificate attribute.
 - none no verification is performed. This is the default value.
 - request verification is performed if the certificate/key pair exists on the peer of the host
 making the authentication request before the deployment can occur.
 - require verification must be performed, and the certificate/key pair must exist on the peer
 of the host making the request before the deployment can occur.
- keyFile specifies the absolute path to the key file that provides the weak 40-bit symmetric encryption. For example:

```
keyFile="C:\secure\MyKeyFile.txt" or
keyFile="/secure/MyKeyFile.txt"
```

This attribute is required for using symmetric key encryption. The keyFile attribute is mutually exclusive with the various SSL attributes, as they indicate mutually exclusive encryption methods.

oldOdHome

The oldOdHome element defines the location on the host server where OpenDeploy 4.5.2 sending software resides. This element facilitates deploying files to target hosts running the OpenDeploy 4.5.2 receiving software.

DTD Definition

In the deploy server configuration DTD, the oldOdHome element is defined as:



The following attributes are associated with the oldOdHome element:

• path — specifies the path to the sending software in the path attribute of the oldOdHome element in the base server configuration file (by default odbase.xml):

```
<oldOdHome path="od452-home" />
```

where *od452-home* is the full path to where the OpenDeploy 4.5.2 sending software resides on the source host. For example:

```
<oldOdHome path="C:\Program Files\Interwoven\OpenDeploy" />
```

initiatorProperties

The initiatorProperties element defines whether or not the deployment job queuing feature is enabled on the source host.

DTD Definition

In the deploy server configuration DTD, the initiatorProperties element is defined as:

Associated Attributes

The following attributes are associated with the initiatorProperties element:

- name this value is fixed as InterwovenOpenDeploy.
- pendSessions indicates whether or not the source host can use deployment job queuing.

listenerProperties

The listenerProperties element defines the ports over which source and target hosts communicate with each other and perform OpenDeploy tasks, such as file comparisons and deployments.

DTD Definition

In the deploy server configuration DTD, the listenerProperties element is defined as:

Associated Attributes

The following attributes are associated with the listenerProperties element:

- name this value is fixed, but must be supplied, as InterwovenOpenDeploy.
- bindPort specifies the port number shared by the source and target hosts.

transportProperties

The transportProperties element defines customized buffer settings for sending and receiving files.

DTD Definition

In the deploy server configuration DTD, the transportProperties element is defined as:



The following attributes are associated with the transportProperties element:

- name this value is fixed, but must be supplied, as od.
- bufferSize specifies the buffer size in bytes for sending and receiving deployments. The
 default value is 8000 bytes (8000b).

teamsiteProperties

The teamsiteProperties element specifies which version of TeamSite is present in the OpenDeploy environment. This element is only necessary if you want to perform TeamSite-based deployments, and your TeamSite software is of a different release than your OpenDeploy software. If your TeamSite release is the same as your OpenDeploy release, or you do not want to perform TeamSite-based deployments, you can ignore this element.

DTD Definition

In the deploy server configuration DTD, the teamsiteProperties element is defined as:

Associated Attributes

The following attribute is associated with the teamsiteProperties element:

• version — indicates the TeamSite software release. You only need to include the first two numbers of the TeamSite release. For example:

```
version="5.0"
```

schedulerProperties

The schedulerProperties element defines the attributes and values related to a scheduler database

DTD Definition

In the deploy server configuration DTD, the schedulerProperties element is defined as:

```
<!ELEMENT schedulerProperties EMPTY >
<!ATTLIST schedulerProperties
   idbcDriverClass
                                CDATA
                                                      #IMPLIED
   dbUr1
                                CDATA
                                                      #IMPLIED
   dbUser
                                CDATA
                                                      #TMPLTED
   dbPassword
                                CDATA
                                                      #IMPLIED
                                                      "no" >
   isClearPassword
                                (yes|no)
```

Associated Attributes

The following attributes are associated with the schedulerProperties element:

• jdbcDriverClass — specifies the JDBC Java class that is used to communicate to the RDBMS. The default value is the Hypersonic SQL database:

```
jdbcDriverClass="org.hsql.jdbcDriver"
```

dbUrl — specifies the Web URL to the scheduler database. The default value is:

```
dbUrl="jdbc:HypersonicSQL:od-home/db/schedDB"
```

- dbUser specifies the user account name for access to the scheduler database.
- dbPassword specifies the password to the scheduler database. The default value is:

```
dbPassword=""
```

• isClearPassword — indicates whether or not the value of the dbPassword attribute is contained as unencoded plain text in the deployment configuration file. By default, it is assumed that the dbPassword value is an encoded string. Default value is no. If the isClearPassword attribute is value is yes, then this password will be in plain text. The Hypersonic SQL database that is installed by default with the base server software does not require a password.



allowedHosts

The allowedHosts element specifies from which source hosts a target host can receive deployed files.

DTD Definition

In the deploy server configuration DTD, the allowedHosts element is defined as:

```
<!ELEMENT allowedHosts (node+) >
```

Associated Child Elements

The following child element is associated with the allowedDeployment element:

• node — page 22.

node

The node element defines a source host capable of deploying files to this base server or receiver host. It can also specify the keyFile attribute for weak 40-bit symmetric encryption.

DTD Definition

In the deploy server configuration DTD, the node element is defined as:

Associated Child Elements

The following child element is associated with the node element:

• allowedDirectories — see page 23.

The following attributes are associated with the node element:

 host — specifies the DNS host name or the IP address of the [remote] source server. For example:

```
host="venus.mycompany.com" or
host="114.342.23.21"
```

• keyFile — specifies the absolute path to the key file for symmetric encryption. For example:

```
keyFile="/local/OpenDeploy/conf/keyfile.txt"
```

allowedDirectories

The allowedDirectories element defines which directory locations on the local host are allowed to be used for receiving files as part of a deployment.

DTD Definition

In the deploy server configuration DTD, the allowedDirectories element is defined as:

```
<!ELEMENT allowedDirectories (path+) >
```

Associated Child Elements

The following child element is associated with the allowedDeployment element:

• path — see page 24.



path

The path element defines the absolute path to an area on the local host under which it is permissible to deploy content.

DTD Definition

In the deploy server configuration DTD, the path element is defined as:

```
<!ELEMENT path EMPTY>
<!ATTLIST path

name CDATA #REQUIRED >
```

Associated Attributes

The following attribute is associated with the path element:

name — specifies the actual name of the path element. For Windows, the value:

```
name="x:\"
```

by itself, where x is a drive letter, is not an accepted path.

logRules

The logRules element defines values for log management features.

DTD Definition

In the deploy server configuration DTD, the logRules element is defined as:

The following attributes are associated with the logRules element:

maxBytes — specifies the maximum size in bytes a log file is allowed to grow before the file is closed and OpenDeploy begins writing to a new file. This value is known as the *rollover threshold*. The default maxBytes value is 32 megabytes. You can specify different byte measurements in the value, including megabytes (mb), kilobytes (kb), and bytes (b). For example:

```
maxBytes="10mb" or
maxBytes="10000kb" or
maxBytes="10000000b"
```

indicates that the log file size can grow to 10 megabytes before OpenDeploy will close that log file and start a new one.

Ensure that you include the proper measurement indicator when setting the threshold size. If no recognizable size measurement is indicated, OpenDeploy uses its default value instead. For example, if the following value was specified:

```
maxBytes="10"
```

OpenDeploy would ignore that stated value and use the default value (32mb) instead.

If the unit of measure is present but unrecognized by OpenDeploy, the default value is used. For example, if the following value was specified:

```
maxBytes="1000x"
```

OpenDeploy would ignore this value and use the default value (32mb).

OpenDeploy will not honor a maxBytes value of less than 100 kilobytes (100kb). For example, if the following value was specified:

```
maxBytes="50kb"
```

OpenDeploy would ignore this value and use the default value (32mb) instead.



- directory specifies the absolute path directory location for log files. The default location is:
 od-home/log
- level indicates the level and type of logging OpenDeploy will perform.
 - verbose logs high level of detail on deployment events as they occur. This logging level is
 best suited for troubleshooting deployment problems or evaluating deployment performance.
 Verbose logging can create very large log files. This is the default logging level.
 - normal logs standard status and error messages. In most cases, this level of logging provides
 a sufficient amount of detail to meet your needs.

Chapter 2

Nodes Configuration DTD

The nodes configuration DTD defines the elements and attributes for the nodes configuration file, which specifies the target hosts available to the source host.

Nodes Configuration DTD

This section contains the XML code contained within the nodes configuration DTD.

```
Nodes Configuration DTD
A nodeSet defines all OpenDeploy servers (senders or
  receivers) known to this OpenDeploy server.
  <!ELEMENT nodeSet (node+) >
A node represents an individual OpenDeploy server:
  - name: a symbolic name by which to refer to the node.
  - host: the actual hostname or IP address of the node.
  - port: the port number to use for communicating with the
<!ELEMENT node EMPTY >
<!ATTLIST node
   name
            TD
                    #REQUIRED
   host
            CDATA
                    #REOUIRED
            CDATA
                    #REOUIRED
   port
```



Descriptions of Elements and Attributes

This section describes each element and its associated attributes found within the nodes configuration DTD.

nodeSet

The nodeSet element is the root container for elements representing all target nodes to which the source host can deploy files.

DTD Definition

In the nodes configuration DTD, the nodeSet element is defined as:

```
<!ELEMENT nodeSet (node)+ >
```

Associated Child Elements

The following child element is associated with the nodeSet element:

node — see below.

node

The node element defines a target host capable of receiving files from the OpenDeploy source host.

DTD Definition

In the nodes configuration DTD, the node element is defined as:

The following attributes are associated with the node element:

- name the logical name of the host as it appears in OpenDeploy configuration files. For example:
 name="venus"
- host the fully qualified DNS host name or the IP address of the server. For example:

```
host="venus.mycompany.com" or
host="114.342.23.21"
```

• port — the port number used by the OpenDeploy host. The port number should match the value for the bindPort attribute of the listenerProperties element found in the base server or receiver configuration file of the target host. For example:

```
port="20014"
```



Chapter 3

Deployment Configuration DTD

The deployment configuration DTD specifies the XML rules for deployment configuration files. Each named deployment configuration has a corresponding deployment configuration file that defines the type of deployment taking place, the target hosts, and what OpenDeploy features are being employed.

Deployment Configuration DTD

This section contains the XML code contained within the deployment configuration DTD.

```
Deployment Configuration DTD
<!ELEMENT deploymentConfiguration ( logRules?,</pre>
                           localNode,
                           replicationFarmSet,
                           definition+,
                           deployment
A deployment configuration has dependencies on a set of
   machines (nodes) defined in IWODHOME/etc/odnodes.xml
   _____
   NOTE: The following specification is syntactically correct
        as far as XML is concerned, but not expressive enough
        for the purposes of OpenDeploy.
        Thus, please be aware that while all the ssl*
        attributes and keyFile attribute are optional - if you
        decide to use the ssl* attributes you MUST use ALL of
        them and CANNOT use the keyFile attribute.
        Conversely, if you decide to use the keyFile attribute,
        you CANNOT use ANY of the ssl* attributes.
```



```
<!ELEMENT localNode EMPTY >
<!ATTLIST localNode
    host
                   CDATA
                           #REOUIRED
    sslCertificate
                           #TMPLTED
                   CDATA
    sslPrivateKev
                   CDATA
                           #TMPLTED
    sslCaCertificate
                   CDATA
                           #IMPLIED
    sslCiphers
                   CDATA
                          #IMPLIED
    sslVerifyPeer
                                         "none"
                   (require|request|none)
    keyFile
                   CDATA
                           #TMPLTED
A deployment definition contains a pairing of "source" and
   "target"
   <!ELEMENT definition ( (source, target)|(reverseSource, reverseTarget) ) >
<!ATTLIST definition
    name
                 TD
                          #REOUIRED
    >
A deployment itself specifies multiple source-target tasks.
   <!ELEMENT deployment ( execDeploymentTask+ ) >
<!ATTLIST deployment
    transactional
                 (yes|no)
    >
The "downRev" attribute is required when you are deploying
   from an OpenDeploy 5.5.x to an OpenDeploy 4.5.x system. The
   value of the attribute should be the version number of the
   receiving OpenDeploy server.
   <!ELEMENT execDeploymentTask (deployNRun?) >
<!ATTLIST execDeploymentTask
    useDefinition
                 IDREF
                          #REOUIRED
    downRev
                 CDATA
                          #TMPI TFD
The "source" and "target" of a deployment are
   the data-sources and data-receptors, respectively.
   Note that there may be multiple data-sources defined.
```

```
<!ELEMENT source ( (sourceFilesystem | sourceTeamsite)+ ) >
<!ELEMENT target (targetFilesystem, filters?, comparisonRules?,</pre>
               transferRules?, permissionRules?)
<!ATTLIST target
    useReplicationFarm IDREF
                             #REOUIRED
To define a reverse deployment, use the following elements.
    The "reverseTarget" and "reverseSource" of a deployment are
    the data-receptors and data-sources, respectively.
    <!ELEMENT reverseSource ( (sourceFilesystem | sourceTeamsite)+ ) >
<!ATTLIST reverseSource
    useReplicationFarm IDREF
                              #REOUIRED
<!ELEMENT reverseTarget (targetFilesystem, filters?, comparisonRules?,</pre>
                     transferRules?, permissionRules?)
These adapters support the core OpenDeploy functionality.
    The sourceFilesystem adapter specifies the source location
       for the content on a file system.
    The targetFilesystem adapter specifies where it will
       be transported to.
    The sourceTeamsite adapter specifies the teamsite area(s)
       that will be differenced and then deployed over.
    <!ELEMENT sourceFilesystem ( pathSpecification+ ) >
<!ATTLIST sourceFilesystem
    name
                    CDATA
                              #IMPLIED
                    CDATA
                              #REOUIRED
    area
                   CDATA
                              #IMPLIED
    filelist
<!ELEMENT sourceTeamsite ( pathSpecification+ ) >
<!ATTLIST sourceTeamsite
```



```
name
                  CDATA
                             #IMPLIED
                  CDATA
                             #REOUIRED
    area
    previousArea
                  CDATA
                             #REOUIRED
<!ELEMENT targetFilesystem EMPTY >
<!ATTLIST targetFilesystem
    area
                  CDATA
                            #REOUIRED
    >
The following sections specify how to configure options for
   particular adapter elements
   <!ELEMENT pathSpecification ( path,
                       filters?,
                       sourceTransferRules?,
                       targetRules?
Note: targetRules settings within pathSpecification will
        override the settings in target.
   Note: targetRules settings within nodeRef will override
        the settings in both pathSpecification *and* target.
   <!ELEMENT targetRules (filters?, comparisonRules?, transferRules?,</pre>
                  permissionRules?) >
<!ATTLIST targetRules
                  CDATA
                            #IMPLIED
    area
<!ELEMENT path EMPTY>
<!ATTLIST path
    name
                  CDATA
                            #REQUIRED
    >
<!ELEMENT filters ( (excludePath | excludePattern)+ ) >
<!ELEMENT excludePath EMPTY >
<!ATTLIST excludePath
    subPath
                  CDATA
                            #REOUIRED
```

```
<!ELEMENT excludePattern EMPTY >
<!ATTLIST excludePattern
     regex
                      CDATA
                                 #REOUIRED
     >
Note: dateDifferent and revert cannot both be enabled for
         the same deployment.
    <!ELEMENT comparisonRules EMPTY >
<!ATTLIST comparisonRules
     dateDifferent
                                  "no"
                     (ves|no)
                                  "no"
     revert
                      (ves|no)
                      (yes|no)
                                  "no"
     ignoreAcls
     ignoreModes
                      (yes|no)
                                  "no"
     ignoreUser
                      (yes|no)
                                  "no"
                                  "no"
     ignoreGroup
                      (yes|no)
<!ELEMENT transferRules EMPTY >
<!ATTLIST transferRules
     doDeletes
                                        "no"
                             (yes|no)
                             (yes|no)
                                        "no"
     dontDo
                                        "no"
     preserveAcls
                             (yes|no)
                                        "no"
     followLinks
                             (yes|no)
     svrTryCount
                             CDATA
                                        #IMPLIED
     svrTryInterval
                             CDATA
                                        #IMPLIED
     svrTryDisableOverwrite
                                        "no"
                             (yes|no)
     rmReadOnly
                             (yes|no)
                                        "no"
     >
<!ELEMENT sourceTransferRules EMPTY >
<!ATTLIST sourceTransferRules
                                  "no"
     followLinks
                      (yes|no)
     >
<!ELEMENT permissionRules (userTranslation|groupTranslation)* >
<!ATTLIST permissionRules
     amask
                      CDATA
                                  #IMPLIED
     omask
                      CDATA
                                  #IMPLIED
     directory
                      CDATA
                                 #IMPLIED
     file
                      CDATA
                                 #IMPLIED
                      CDATA
                                  #IMPLIED
     group
     user
                      CDATA
                                  #IMPLIED
                      CDATA
                                  #IMPLIED
     changeAccess
```



```
setAccess
                 CDATA
                          #TMPLTED
<!ELEMENT userTranslation EMPTY >
<!ATTLIST userTranslation
    from
                 CDATA
                          #REOUIRED
    to
                 CDATA
                          #REOUIRED
<!ELEMENT groupTranslation EMPTY >
<!ATTLIST groupTranslation
    from
                 CDATA
                          #REOUIRED
                 CDATA
    to.
                          #REOUIRED
    >
The deployNRun feature specifies when and how a script is
   invoked
   <!ELEMENT deployNRun ( (dnrFile | dnrDir | dnrDeployment)+ ) >
Note: dnrFile does not actually support location="source".
       At this time, specifying such will cause the
       specification to be silently ignored as a whole.
   <!ELEMENT dnrFile ( script ) >
<!ATTLIST dnrFile
    location
                 (target)
                             #REQUIRED
                 (before | after) #REQUIRED
    when
                 (success | failure | always)
    state
    mask
                 CDATA
                              #TMPLTED
Note: dnrDir does not actually support location="source".
       At this time, specifying such will cause the
       specification to be silently ignored as a whole.
   <!ELEMENT dnrDir ( script ) >
<!ATTLIST dnrDir
    location
                 (target)
                               #REOUIRED
                 (before | after) #REQUIRED
    when
                 (success | failure | always) "always"
    state
```

```
mask
                  CDATA
                                #IMPLIED
<!ELEMENT dnrDeployment ( script ) >
<!ATTLIST dnrDeployment
    location
                  (source | target) #REQUIRED
    when
                  (before | after) #REQUIRED
                  (success | failure | always) "always"
    state
<!ELEMENT script EMPTY >
<!ATTLIST script
    cmd
                  CDATA
                           #REOUIRED
                  CDATA
                            #TMPI TFD
    as
    where
                  CDATA
                            #IMPLIED
    async
                  (yes|no)
Logfile management
   Note: maxBytes must be specified with a number and an
        indication of the unit. E.g. "32mb", "22kb".
   <!ELEMENT logRules EMPTY >
<!ATTLIST logRules
    maxBytes
                  CDATA
                                         #TMPI TFD
    level
                  (verbose|normal)
                                         "verbose"
    >
Nodes are machines in a network defined in a well-known file.
   Nodes can be annotated with a reference to a subsequent
   deployment and configuration and when that deployment is
   to be triggered after successful completion of the current
   node.
   <!ELEMENT nodeRef (nextDeployment*, targetRules?) >
<!ATTLIST nodeRef
    useNode
                  IDREF
                           #REOUIRED
    >
<!ELEMENT nextDeployment EMPTY>
```



Descriptions of Elements and Attributes

The following section explains the elements and attributes contained in the deployment configuration DTD.

Elements at a Glance

The elements in this appendix follow in the order they appear in the deployment configuration DTD. However, the following table lists them in alphabetical order with their corresponding page number.

Element	Location	Element	Location
comparisonRules	page 56	path	page 53
definition	page 43	pathSpecification	page 51
deployment	page 44	permissionRules	page 60
deploymentConfiguration	page 40	replicationFarm	page 73
deployNRun	page 64	replicationFarmSet	page 72
dnrDeployment	page 67	reverseSource	page 47
dnrDir	page 66	reverseTarget	page 48
dnrFile	page 65	script	page 68
excludePath	page 54	source	page 45
excludePattern	page 55	sourceFilesystem	page 48
execDeploymentTask	page 44	sourceTeamsite	page 49
filters	page 54	sourceTransferRules	page 59
groupTranslation	page 63	target	page 46
localNode	page 41	targetFilesystem	page 50
logRules	page 69	targetRules	page 52
nextDeployment	page 72	transferRules	page 58
nodeRef	page 71	userTranslation	page 62



deploymentConfiguration

The deploymentConfiguration element defines the overall deployment, acting as the root container for the deployment configuration's various elements and attributes.

DTD Definition

In the deployment configuration DTD, the deploymentConfiguration element is defined as:

```
<!ELEMENT deploymentConfiguration (logRules? localNode
replicationFarmSet definition+ deployment) >
```

Associated Child Elements

The following child elements are associated with the deploymentConfiguration element:

- logRules see page 69.
- localNode see page 41.
- replicationFarmSet see page 72.
- definition see page 43.
- deployment see page 44.

localNode

The localNode element defines host name and encryption information regarding the source host of the deployment.

DTD Definition

In the deployment configuration DTD, the localNode element is defined as:

```
<!ELEMENT localNode EMPTY >
<!ATTLIST localNode
   host
                         CDATA
                                                  #REOUIRED
   ( (sslCertificate
                         CDATA
                                                  #IMPLIED
      sslPrivateKey
                         CDATA
                                                  #IMPLIED
      sslCaCertificate
                         CDATA
                                                  #IMPLIED
      sslCiphers
                         CDATA
                                                  #IMPLIED
                                                  "none") |
      sslVerifyPeer
                         (require|request|none)
   (keyFile
                         CDATA
                                                  #IMPLIED) ) >
```

Associated Attributes

The following attributes are associated with the localNode element:

• host — specifies the fully qualified DNS host name or IP address of the source host. For example:

```
host="venus.mycompany.com" or
host="114.342.23.21"
```

- sslCertificate specifies the absolute path to the secure sockets layer (SSL) public key certificate. This attribute is required for using asymmetric key encryption.
- sslPrivateKey specifies the absolute path to the SSL private key certificate. This attribute is required for using asymmetric key encryption.
- sslCaCertificate specifies the absolute path to the certificate authority. This allows OpenDeploy to authenticate the source from which the public and private key pairs for the source and target hosts are derived. This attribute is required for using asymmetric key encryption.



sslCiphers — specifies the SSL ciphers to use. Multiple ciphers must be separated by colons
(":"). For example:

```
sslCiphers="EDH-DSS-DES-CBC3-SHA:EXP-EDH-DSS-DES-CBC-SHA"
```

This attribute is optional for using with asymmetric key encryption.

- sslVerifyPeer indicates which of the following conditions apply in regards to the
 verification that the certificate authority for each public and private key pairs comes from the same
 source. This source is the value specified in the sslCaCertificate attribute.
 - none no verification is performed. This is the default value.
 - request verification is performed if the certificate/key pair exists on the peer of the host making the authentication request before the deployment can occur.
 - require verification must be performed, and the certificate/key pair must exist on the peer
 of the host making the request before the deployment can occur.
- keyFile specifies the absolute path to the key file that provides the weak 40-bit symmetric encryption. For example:

```
keyFile="C:\secure\MyKeyFile.txt" or
keyFile="/secure/MyKeyFile.txt"
```

This attribute is required for using symmetric key encryption. The keyFile attribute is mutually exclusive with the various SSL attribute, as they indicate mutually exclusive encryption methods.

definition

The definition element specifies the matching between one or more source file locations (either a file system location or TeamSite area) and a single target file system location in a deployment. Within the definition are the various deployment criteria rules and features that determine which files can be deployed.

DTD Definition

In the deployment configuration DTD, the definition element is defined as:

Associated Child Elements

The following child elements are associated with the definition element:

- source see page 45.
- target see page 46.
- reverseSource see page 47.
- reverseTarget see page 48.

Associated Attributes

The following attribute is associated with the definition element:

name — denotes the unique name of the definition element.



deployment

The deployment element specifies the various source-target tasks involved in a deployment.

DTD Definition

In the deployment configuration DTD, the deployment element is defined as:

```
<!ELEMENT deployment (execDeploymentTask+) >
<!ATTLIST deployment
    transactional (yes|no) "no" >
```

Associated Child Elements

The following child element is associated with the deployment element:

• execDeploymentTask — see page 44.

Associated Attributes

The following attribute is associated with the deployment element:

• transactional — indicates whether or not the deployment configuration is transactional. Default value is no.

execDeploymentTask

The execDeploymentTask element specifies which deployment definition to run.

DTD Definition

In the deployment configuration DTD, the execDeploymentTask element is defined as:

Associated Child Elements

The following child element is associated with the execDeploymentTask element:

• deployNRun — see page 64.

Associated Attributes

The following attributes are associated with the execDeploymentTask element:

- useDefinition points to a specific named definition element attribute previously defined.
- downRev specifies that the receiving nodes are running an earlier version of OpenDeploy, and which release it is. For example:

```
downRev="4.5.2"
```

source

The source element identifies attributes regarding the originator of the deployment.

DTD Definition

In the deployment configuration DTD, the source element is defined as:

```
<!ELEMENT source ( (sourceFilesystem | sourceTeamsite)+ ) >
```

Associated Child Elements

The following child elements are associated with the source element:

- sourceFilesystem see page 48.
- sourceTeamsite see page 49.



target

The target element identifies attributes regarding the recipient of the deployment. Note that targetRules settings specified within the pathSpecification element will override settings within the target element.

DTD Definition

In the deployment configuration DTD, the target element is defined as:

```
<!ELEMENT target ( targetFilesystem filters? comparisonRules?
transferRules? permissionRules?) >
<!ATTLIST target
  useReplicationFarm IDREF #IMPLIED >
```

Associated Child Elements

The following child elements are associated with the target element:

- targetFilesystem see page 50.
- filters see page 54.
- comparisonRules see page 56.
- transferRules see page 58.
- permissionRules page 60.

Associated Attribute

The following attribute is associated with the target element:

• useReplicationFarm — points to a specific named replicationFarm element attribute previously defined. For example, if you previously defined a named replicationFarm element as fan-out, you can reference that element here as:

```
useReplicationFarm="fan-out"
```

reverseSource

The reverseSource element identifies the attributes regarding the originator of a reverse deployment.

DTD Definition

In the deployment configuration DTD, the reverseSource element is defined as:

Associated Child Elements

The following child elements are associated with the reverseSource element:

- sourceFilesystem see page 48.
- sourceTeamsite see page 49.

Associated Attributes

The following attribute is associated with the reverseSource element:

• useReplicationFarm — points to a specific named replicationFarm element attribute previously defined. For example, if you previously defined a named replicationFarm element as fan-out, you can reference that element here as:

```
useReplicationFarm="fan-out"
```



reverseTarget

The reverseTarget element identifies the attributes regarding the recipient of a reverse deployment.

DTD Definition

In the deployment configuration DTD, the reverseTarget element is defined as:

```
<!ELEMENT reverseTarget (targetFilesystem filters? comparisonRules?
transferRules? permissionRules?) >
```

Associated Child Elements

The following child elements are associated with the reverseTarget element:

- targetFilesystem see page 50.
- filters see page 54.
- comparisonRules see page 56.
- transferRules see page 58.
- permissionRules page 60.

sourceFilesystem

The sourceFilesystem element defines the attributes for a file system-based repository containing the source host files.

DTD Definition

In the deployment configuration DTD, the sourceFilesystem element is defined as:

Associated Child Elements

The following child element is associated with the sourceFilesystem element:

pathSpecification — see page 51.

Associated Attributes

The following attributes are associated with the sourceFilesystem element:

- name denotes the unique name of the sourceFilesystem element.
- area specifies the absolute path for a file system containing the source host files. For example:

```
area="/website/files" or
area="C:\website\files"
```

• filelist — specifies the absolute path to the file being accessed in a file list deployment. The presence of this attribute and value indicate the deployment is a file list type. The absence of this attribute indicates the deployment is a directory comparison type. For example:

```
filelist="C:\OpenDeploy\files\filelist.txt"
```

sourceTeamsite

The sourceTeamsite element defines the attributes for a TeamSite area-based repository containing the originating host files.

DTD Definition

In the deployment configuration DTD, the sourceTeamsite element is defined as:



Associated Child Elements

The following child element is associated with the sourceTeamsite element:

pathSpecification — see page 51.

Associated Attributes

The following attributes are associated with the sourceTeamsite element:

- name denotes the unique name of the sourceTeamsite element.
- area specifies the absolute path for a TeamSite area containing the source host files. For example:

```
area="//IWSERVER/default/main/dev/EDITION"
```

• previousArea — specifies the absolute path for a TeamSite area containing the target host files in their current state. For example:

```
previousArea="//IWSERVER/default/main/dev/EDITION/IW PREV"
```

targetFilesystem

The targetFilesystem element defines the attributes for a file system-based repository containing the recipient host files.

DTD Definition

In the deployment configuration DTD, the targetFilesystem element is defined as:

The following attributes are associated with the targetFilesystem element:

• area — specifies the absolute path for a file system containing the target host files. For example:

```
area="/website/files" or
area="C:\website\files"
```

pathSpecification

The pathSpecification element is a container of source elements that define deployment rules such as filtering and specifying locations within the source host area. Note that targetRules settings specified within the pathSpecification element will override settings within the target element. Additionally, targetRules settings within the nodeRef element will override the settings in both the pathSpecification and target elements.

DTD Definition

In the deployment configuration DTD, the pathSpecification element is defined as:

```
<!ELEMENT pathSpecification (path filters? sourceTransferRules?
targetRules?) >
```

Associated Child Elements

The following child elements are associated with the pathSpecification element:

- path see page 53.
- filters see page 54.
- sourceTransferRules see page 59.
- targetRules see page 52.



targetRules

The targetRules element defines target node modifications to, or exemptions from, configuration standards in multi-target deployments. Note that targetRules settings specified within the pathSpecification element will override settings within the target element. Additionally, targetRules settings within the nodeRef element will override the settings in both the pathSpecification and target elements.

DTD Definition

In the deployment configuration DTD, the targetRules element is defined as:

Associated Child Elements

The following child elements are associated with the targetRules element:

- filters see page 54.
- transferRules see page 58.
- comparisonRules see page 56.
- permissionRules see page 60.

Associated Attributes

The following attribute is associated with the targetRules element:

area — specifies an alternate file system location on the target node where the deployed files will
reside.

path

The path element defines a location within a specified file system location or TeamSite area as specified in the area attribute.

DTD Definition

In the deployment configuration DTD, the path element is defined as:

Associated Attributes

The following attribute is associated with the path element:

• name — denotes the path to the subdirectory within the associated area attribute (file system location or TeamSite area). For example, if you specified the following value:

```
name="western"
```

where the associated area attribute value is:

```
area="C:\website\files"
```

then the file location path would be:

```
C:\website\files\western
```

If no subdirectory is desired, enter the value:

```
name="."
```



filters

The filters element defines whether certain paths or data patterns should be included with or excluded from the deployment. Filters can be applied either to files residing at the source-side of a deployment, or at the target-side.

DTD Definition

In the deployment configuration DTD, the filters element is defined as:

```
<!ELEMENT filters ( (excludePath | excludePattern)+ ) >
```

Associated Child Elements

The following child elements are associated with the filters element:

- excludePath see page 54.
- excludePattern see page 55.

excludePath

The excludePath element defines a path that should be excluded from either the source or target hosts during a deployment based upon where the containing filters element is located.

DTD Definition

In the deployment configuration DTD, the excludePath element is defined as:

The following attribute is associated with the excludePath element:

 subPath — specifies the path to a location whose files are excluded from the deployment based upon where the containing filters element is located.

On the source side, filters exclude files from being deployed and from appearing to exist during the comparison stage (if any) such that if the doDeletes attribute is enabled, the files will be removed from the target node.

On the target side, filters exclude files from appearing to exist during the comparison stage (if any) such that if the files exist on the source side, they will always be deployed.

The subPath value is relative to the area attribute with which the filter is associated. In the following example:

```
subPath="monthly"
```

the directory monthly would be excluded from the deployment.

excludePattern

The excludePattern element defines a regular expression pattern that should be excluded from either the source or target hosts during a deployment based upon where the containing filters element is located.

DTD Definition

In the deployment configuration DTD, the excludePattern element is defined as:



The following attribute is associated with the excludePattern element:

regex — specifies a regular expression specifying the pattern to be excluded in the deployment.
 The items compared with the patterns are paths relative to the target directory. In the following example:

```
regex="internal"
```

any path containing the term internal would be excluded from the deployment.

comparisonRules

The comparisonRules element defines the rules that OpenDeploy uses when it compares files to determine the eligibility of files for deployment. The type and platform of the file system determines the criteria available. Note that the dateDifferent attribute cannot be enabled if the revert attribute is also enabled.

DTD Definition

In the deployment configuration DTD, the comparisonRules element is defined as:

```
<!ELEMENT comparisonRules EMPTY >
<!ATTLIST comparisonRules
      (dateDifferent
                             (yes|no)
                                                   "no") |
                                                   "no")
      (revert
                             (yes|no)
                                                   "no"
   ignoreAcls
                             (yes|no)
                                                   "no"
   ignoreModes
                             (ves|no)
                                                   "no"
   ignoreUser
                             (yes|no)
   ignoreGroup
                                                   "no" >
                             (yes|no)
```

The following attributes are associated with the comparisonRules element:

- dateDifferent indicates whether or not a file is deployable if there is any difference in file date (older or newer) between the source and target versions. This differs from the OpenDeploy default date-based comparison setting, where a file is deployed only if the source file is newer than the target file. A value of yes indicates that the file should be deployed. Default value is no. The dateDifferent attribute cannot be enabled if the revert attribute is also enabled.
- revert indicates whether or not a file is deployable if the source version is older than the target version. A value of yes indicates that the file should be deployed. Default value is no. The revert attribute cannot be enabled if the dateDifferent attribute is also enabled.
- ignoreAcls (Windows only) indicates whether or not to ignore differences in the Windows access control lists (ACLs) during the file comparison. Default value is no.
- ignoreModes (UNIX only) indicates whether or not to ignore differences in the UNIX-based permission bit mask during the file comparison. Default value is no.
- ignoreUser (UNIX only) indicates whether or not to ignore differences in the UNIX-based file user ownership during the file comparison. Default value is no.
- ignoreGroup (UNIX only) indicates whether or not to ignore differences in the UNIX-based file group ownership during the file comparison. Default value is no.



transferRules

The transferRules element defines the rules for moving files from the source host to the target host during the deployment.

DTD Definition

In the deployment configuration DTD, the transferRules element is defined as:

```
<!ELEMENT transferRules EMPTY >
<!ATTLIST transferRules
                                                       "no"
   doDeletes
                                    (yes|no)
   dontDo
                                    (yes|no)
                                                       "no"
   preserveAcls
                                    (yes|no)
                                                       "no"
   followLinks
                                                       "no"
                                    (yes|no)
   svrTryCount
                                   CDATA
                                                       #IMPLIED
   svrTryInterval
                                   CDATA
                                                       #IMPLIED
                                                       "no"
   svrTryDisableOverwrite
                                    (yes|no)
   rmReadOnly
                                    (yes|no)
                                                       "no" >
```

Associated Attributes

The following attributes are associated with the transferRules element:

- doDeletes indicates whether or not files and directories not present in the source host area will be deleted on the target host. Default value is no.
- dontDo indicates whether or not to proceed with the deployment following the comparison.
 Deployment will not occur if this attribute is enabled. This is a good tool to use to check and
 compare files without actually performing a deployment. Default value is no.
- preserveAcls (Windows only) indicates whether or not to preserve the Windows access
 control lists (ACLs) when the files are moved. By default, OpenDeploy applies ACLs based on the
 ACLs already existing on the containing folders on the target host receiving the deployed files.
 Default value is no.
- followLinks (UNIX only) indicates whether or not symbolic links on the target hosts will be followed when the files are moved. Default value is no.

- svrTryCount (Windows only) specifies the number of times OpenDeploy will attempt to
 deploy the file to the target host. This feature works in conjunction with Microsoft IIS, and is
 designed to accommodate times of heavy production server traffic.
- svrTryInterval (Windows only) specifies the amount of time in seconds OpenDeploy waits between deployment attempts. This feature works in conjunction with Microsoft IIS, and is designed to accommodate times of heavy production server traffic.
- svrTryDisableOverwrite (Windows only) indicates whether or not to disable the ability of OpenDeploy to deploy files to a server even if the svrTryCount and svrTryInterval elements are specified. This feature works in conjunction with Microsoft IIS, and is designed to accommodate times of heavy production server traffic. Default value is no.
- rmReadOnly (Windows only) indicates whether or not you want a deployed file to be able to
 overwrite its read-only target equivalent. If this feature is enabled with a value of yes,
 OpenDeploy will remove the read-only attribute from the target file, allowing the deployment to
 occur. A value of no will prevent the overwriting. Default value is no.

sourceTransferRules

The sourceTransferRules element defines the rules applicable to the source host for transferring files during a deployment.

DTD Definition

In the deployment configuration DTD, the sourceTransferRules element is defined as:

Associated Attributes

The following attribute is associated with the sourceTransferRules element:

followLinks — indicates whether or not symbolic links on the source and target hosts will be
retained and followed once the files are moved. Default value is no.



permissionRules

The permissionRules element defines the rules applicable to the permissions of deployed files and directories.

DTD Definition

In the deployment configuration DTD, the permissionRules element is defined as:

```
<!ELEMENT permissionRules (userTranslation* groupTranslation*) >
<!ATTLIST permissionRules
   amask
                               CDATA
                                                      #IMPLIED
   omask
                               CDATA
                                                      #IMPLIED
   directory
                               CDATA
                                                      #TMPLTED
   file
                               CDATA
                                                      #IMPLIED
                               CDATA
                                                      #IMPLIED
   group
                               CDATA
                                                      #IMPLIED
   user
   changeAccess
                               CDATA
                                                      #IMPLIED
   setAccess
                               CDATA
                                                      #IMPLIED >
```

Associated Child Elements

The following child elements are associated with the permissionRules element:

- userTranslation see page 62.
- groupTranslation see page 63.

Associated Attributes

The following attributes are associated with the permissionRules element:

amask (UNIX only) — specifies the bit mask (in octal) to be ANDed with the permission bits of all
files and directories. The amask octal value combines with the existing permission bit value of the
affected file. If a file has the existing permission value of 664 (-rw-rw-r--) and the amask attribute
as the following value:

```
amask="770"
```

then the resulting permission for that file (664 AND 770) following the deployment would be 660 (-rw-rw----).

• omask (UNIX only) — specifies the bit mask (in octal) to be ORed with the permission bits of all files and directories. The omask octal value combines with the existing permission bit value of the affected file. If a file has the existing permission value of 666 (-rw-rw-rw-) and the omask attribute as the following value:

```
omask="022"
```

then the resulting permission for that file (666 OR 022) following the deployment would be 644 (-rw-r--r--).

• directory (UNIX only) — specifies the permissions (in octal) given to all deployed directories. For example, if you wanted deployed directories to have the permission "drwxrwx---", then the resulting value would be:

```
directory="770"
```

file (UNIX only) — specifies the permissions (in octal) given to all deployed files. For example, if you wanted deployed files to have the permission "-rw-rw-r-x", then the resulting value would be:

```
file="665"
```

group (UNIX only) — specifies the group assigned to all deployed files and directories. This
attribute value must be a valid group name or group ID. For example:

```
group="tech_pubs" or
group="200"
```

You must also specify the user attribute if you use employ the group attribute.

• user (UNIX only) — specifies the user who will own all deployed files and directories. This attribute value must be a valid user name or user ID. For example:

```
user="jdoe" or user="105"
```

You must also specify the group attribute if you use employ the user attribute.



• changeAccess (Windows only) — modifies the access control lists (ACLs) so that specified users have the designated rights. The new access control entry (ACE) for each specified user allows only the specified rights, discarding any existing ACE. In the following example:

```
changeAccess="{ jdoe:W, tech pubs:NONE }"
```

any existing ACEs for jdoe and tech_pubs are removed, jdoe is granted write access, and the group tech_pubs has no access at all. Any other access rights that may have existed for other users are left unchanged.

 setAccess (Windows only) — replaces the ACLs for the deployed files and directories. In the following example:

```
setAccess="{ jdoe:ALL, tech_pubs:RX }"
```

the existing ACL is removed and the user jdoe is granted full access. The group tech_pubs has read access to the specified files. Any other access rights that may have existed for the file are removed.

Access options specific to UNIX are ignored when deploying to a Windows target host and access options specific to Windows are ignored when deploying to a UNIX target host.

userTranslation

The userTranslation element defines information related to changing the user name or user ID while a deployment is in progress. The element maps an existing source user name or ID with a new target user name or ID.

DTD Definition

In the deployment configuration DTD, the userTranslation element is defined as:

The following attributes are associated with the userTranslation element:

• from — specifies the existing source user or user ID (the identification number assigned to each user account with in the UNIX server). For example:

```
from="jdoe" or
from="105"
```

• to — specifies the new target user or user ID. For example:

```
to="rroe" or
to="110"
```

groupTranslation

The groupTranslation element defines information related to changing the group or group ID while a deployment is in progress. The element maps an existing source group or group ID with a new target group name or ID.

DTD Definition

In the deployment configuration DTD, the groupTranslation element is defined as:



The following attributes are associated with the groupTranslation element:

• from — specifies the existing source group or ID (the identification number assigned to each group account with in the UNIX server). For example:

```
from="tech_pubs" or
from="100"
```

• to — specifies the new target group or ID. For example:

```
to="marketing" or
to="200"
```

deployNRun

The deployNRun element is a container for the Deploy and Run feature, which specifies how and when a script is invoked in OpenDeploy.

DTD Definition

In the deployment configuration DTD, the ${\tt deployNRun}$ element is defined as:

```
<!ELEMENT deployNRun ((dnrFile | dnrDir | dnrDeployment)+ ) >
```

Associated Child Elements

The following child elements are associated with the deployNRun element:

- dnrFile see page 65.
- dnrDir see page 66.
- dnrDeployment see page 67.

dnrFile

The dnrFile element specifies under what conditions deployed files can trigger a Deploy and Run script. Not available for use with transactional deployments.

DTD Definition

In the deployment configuration DTD, the dnrFile element is defined as:

```
<!ELEMENT dnrFile (script) >
<!ATTLIST dnrFile
  location (target) #REQUIRED
  when (before|after) #REQUIRED
  state (success|failure|always) "always"
  mask CDATA #IMPLIED >
```

Associated Child Elements

The following child element is associated with the dnrFile element:

script — see page 68.

Associated Attributes

The following attributes are associated with the dnrFile element:

- location indicates that the Deploy and Run script is taking place on the target host. There is no default value. You must specify the value target.
- when indicates whether the script should be executed before or after the deployment of the particular file. There is no default value. You must specify one of the options.
- state indicates whether the Deploy and Run script should run as a result of the success or failure of the deployment, or whether it should always run in either case. Default value is always.
- mask specifies the regular expression specifying the deployed files that will trigger the script. In the following example:

```
mask="\.html$"
```

any deployed file with the file extension . html will trigger the Deploy and Run script.



dnrDir

The dnrDir element specifies under what conditions deployed directories can trigger a Deploy and Run script. Not available for use with transactional deployments.

DTD Definition

In the deployment configuration DTD, the dnrDir element is defined as:

Associated Child Elements

The following child element is associated with the dnrDir element:

script — see page 68.

Associated Attributes

The following attributes are associated with the dnrDir element:

- location indicates that the Deploy and Run script is taking place on the target host. There is
 no default value. You must specify the value target.
- when indicates whether the script should be executed before or after the deployment of the
 particular directory. There is no default value. You must specify one of the options.
- state indicates whether the Deploy and Run script should run as a result of the success or
 failure of the deployment, or whether it should always run in either case. Default value is always.
- mask specifies the regular expression specifying the deployed directories that will trigger the script. In the following example:

```
mask="cgi-bin$"
```

any deployed directory in the deployment path named cgi-bin will trigger the Deploy and Run script.

dnrDeployment

The dnrDeployment element specifies under what conditions a deployment can trigger a Deploy and Run script.

DTD Definition

In the deployment configuration DTD, the dnrDeployment element is defined as:

```
<!ELEMENT dnrDeployment (script) >
<!ATTLIST dnrDeployment
  location (source|target) #REQUIRED
  when (before|after) #REQUIRED
  state (success|failure|always) "always" >
```

Associated Child Elements

The following child element is associated with the dnrDeployment element:

• script — see page 68.

Associated Attributes

The following attributes are associated with the dnrDeployment element:

- location indicates whether the Deploy and Run script is taking place on the source or target host. There is no default value. You must specify one of the options.
- when indicates whether the Deploy and Run script should be executed before or after the
 deployment occurs. There is no default value. You must specify one of the options.
- state indicates whether the Deploy and Run script should run as a result of the success or failure of the deployment, or whether it should always run regardless of success or failure. Default value is always.



script

The script element defines the script associated with the Deploy and Run.

DTD Definition

In the deployment configuration DTD, the script element is defined as:

Associated Attributes

The following attributes are associated with the script element:

• cmd —specifies the command where OpenDeploy can start a Deploy and Run script, as well as any accompanying flags or options. You can also specify an executable invocation line. For example:

```
cmd="C:\bin\email_to_admin.bat -user jdoe@interwoven.com" or
cmd="/bin/mail jdoe@interwoven.com < /tmp/message.txt"</pre>
```

If the command you are going to run requires a scripting engine, the scripting engine must be on the PATH of the user (or system, on Windows) who will be running the script or specified with a full path). For example:

```
cmd="/bin/sh /usr/local/bin/email_to_admin.sh -u jdoe@interwoven.com"
or
cmd="/usr/local/bin/iwperl /path/to/script.pl"
```

• as (UNIX only) — specifies a different user name or user ID under which you can run the script. In the following example:

```
as="rroe" or
as="110"
```

you can run the script as *rroe* rather than as your regular user name. By default, the script runs as the user who invokes OpenDeploy, who will need to be root for most purposes.

• where — specifies the path to the location where the cmd attribute value is run. For example:

```
where="/tmp" or
where="C:\temp"
```

The where attribute is optional. If you do not specify a value, the process takes place in the root directory.

• async — indicates whether or not to run the script asynchronously. Exercise caution when using this mode, as it could cause many scripts to be run simultaneously. The output from scripts run asynchronously is not captured. Default value is no.

logRules

The logRules element determines log management features.

DTD Definition

In the deployment configuration DTD, the logRules element is defined as:



The following attributes are associated with the logRules element:

maxBytes — specifies the maximum size in bytes a log file is allowed to grow before the file is closed and OpenDeploy begins writing to a new file. This value is known as the *rollover threshold*. The default maxBytes value is 32 megabytes. You can specify different byte measurements in the value, including megabytes (mb), kilobytes (kb), and bytes (b). For example:

```
maxBytes="10mb" or
maxBytes="10000kb" or
maxBytes="1000000b"
```

indicates that the log file size can grow to 10 megabytes before OpenDeploy will close that log file and start a new one.

Ensure that you include the proper measurement indicator when setting the threshold size. If no recognizable size measurement is indicated, OpenDeploy uses its default value instead. For example, if the following value was specified:

```
maxBytes="10"
```

OpenDeploy would ignore that stated value and use the default value (32mb) instead.

If the unit of measure is present but unrecognized by OpenDeploy, the default value is used. For example, if the following value was specified:

```
maxBytes="1000x"
```

OpenDeploy would ignore this value and use the default value (32mb).

OpenDeploy will not honor a maxBytes value of less than 100 kilobytes (100kb). For example, if the following value was specified:

```
maxBytes="50kb"
```

OpenDeploy would ignore this value and use the default value (32mb) instead.

- level indicates the level and type of logging OpenDeploy will perform.
 - verbose logs high level of detail on deployment events as they occur. This logging level is best suited for troubleshooting deployment problems or evaluating deployment performance.
 Verbose logging can create large log files. This is the default logging level.
 - normal logs standard status and error messages. In most cases, this level of logging provides
 a sufficient amount of detail to meet your needs.

nodeRef

The nodeRef element defines the means to access a node referenced within an external configuration file. Nodes can be annotated with a reference to a subsequent deployment and configuration. They can also be annotated as to whether and when that deployment is to be triggered after the successful completion of the current deployment. Note that targetRules settings within the nodeRef element will override the settings in both the pathSpecification and target elements.

DTD Definition

In the deployment configuration DTD, the nodeRef element is defined as:

Associated Child Elements

The following child elements are associated with the nodeRef element:

- nextDeployment see page 72.
- targetRules see page 52.

Associated Attributes

The following attribute is associated with the nodeRef element:

useNode — points to a specific named node element attribute previously defined.



nextDeployment

The nextDeployment element defines a tiered series of deployments over a range of OpenDeploy servers.

DTD Definition

In the deployment configuration DTD, the nextDeployment element is defined as:

Associated Attributes

The following attributes are associated with the nextDeployment element:

- deployment specifies the named deployment to execute on the target host upon completion
 of this current deployment. Used as part of a multi-tiered deployment.
- invokeOnSuccess indicates whether or not to deploy the next tier of deployments based on the success of the first deployment. Default value is no.

replicationFarmSet

The replicationFarmSet defines one or more replicationFarm elements.

DTD Definition

In the deployment configuration DTD, the replicationFarmSet element is defined as:

```
<!ELEMENT replicationFarmSet (replicationFarm+) >
```

Associated Child Elements

The following child element is associated with the replicationFarm element:

• replicationFarm — see page 73.

replicationFarm

The replicationFarm element references one or more nodes to be used as targets in a deployment. If more than one node is referenced within a replicationFarm it indicates a fan-out deployment.

DTD Definition

In the deployment configuration DTD, the replicationFarm element is defined as:

Associated Child Elements

The following child element is associated with the replicationFarm element:

nodeRef — see page 71.

Associated Attributes

The following attribute is associated with the replicationFarm element:

• name — denotes the unique name of the replicationFarm element.



Chapter 4

Command-Line Tools

OpenDeploy command line tools provide functionality by entering the command-line tool and its associated options at the command prompt. In some cases command-line tools provide an alternative to performing tasks in the OpenDeploy user interface. In other cases, a command-line tool is the only method to invoke a particular function or feature.

Command-line tools only can be issued on the host where the OpenDeploy server is installed. Commands can be issued by anyone regardless of whether they hold an Administrator or User role. There are no authentication or authorization checks on individuals invoking command-line tools.

iwodcfg2xml

Converts deployment configurations from the OpenDeploy pre-release 5.0 syntax to the current one for OpenDeploy 5.0 and later. The path to the specified file can be either relative or absolute.

```
iwodcfg2xml [options] input_file output_file
iwodcfg2xml [options] -dir dir [inExt [outExt]]
iwodcfg2xml [options] -deep dir [inExt [outExt]]
```



-dir Convert all	files in the specified direct	ory with a .cfg
------------------	-------------------------------	-----------------

extension. The output files will have the same base and an .xml extension. The optional argument inExt overrides the default input extension .cfg. The optional argument outExt overrides the default

output extension .xml.

-deep Recursively convert all files in *dir* and below with a

.cfg extension. The output files will have the same base and an .xml extension. The optional argument inExt overrides the default input extension .cfg. The optional argument outExt overrides the default

output extension .xml.

dir The name of the directory containing the legacy files.

Options

-h Displays help information.

-v Returns version information.

-T Used to emulate the classic command line argument

for a transactional deployment. The default is to

generate non-transactional deployments.

-nodeSetFile *file name* This is the file name that will be set as the

nodeSetFile attribute in the

deploymentConfiguration element of the output configuration file. The default value is the name of the output node file which is set with the option -

nodesFileOut.

-nodesFileIn file_name Sets the name of the file that contains the available

nodes. If the file exists and is valid it will be used to supply the node IDs for the targets. The default file name is "odnodes.xml" in the first directory searched. -nodesFileOut file_name

Sets the name of the file that will be written describing the available nodes. The output file will contain the nodes read from the input file and any new nodes that are needed. If the file exists it will be overwritten and setting this to the node input file effectively updates that file. Any new nodes will be named "host:port." The default file name is "odnodes.xml" in the first directory searched.

-masterHost *host name*

Use *host_name* for the local host name in master (server) configuration. The search order is:

- This option if supplied.
- 2. The name of this sever.
- "Localhost"

-deployHost host name

Use *host_name* for the local host name in deployment (client) configuration. The search order is:

- 1. This option if supplied.
- 2. The "host" statement from the input client .cfg file.
- 3. Generate an error.

-onWarning *n*

Set the warning action to n.

n==0: Suppress messages and take no action.

n==1: Print messages and take no action. (default)

n==2: Print one message and skip file.

n==3: Print one message, skip to next file, set exit code to -1.

n==4: Print one message and exit immediately with -1.



-onFrror n

Set the error action to n.

n==0: Suppress messages and take no action.

n==1: Print messages and take no action.

n==2: Print one message and skip file.

n==3: Print one message, skip to next file, set exit

code to -1. (default)

n==4: Print one message and exit immediately

with -1.

Converting Legacy Deployment Configurations Using xml2cfg

Deployment configurations associated with releases prior to OpenDeploy 5.0 are not compatible with this release. However, you can convert your legacy deployment configuration files to a format compatible with this release of OpenDeploy by using the iwodcfg2xml command-line tool. The iwodcfg2xml command-line tool will convert the legacy deployment configurations to the current syntax, but you might still need to make modifications to ensure total compatibility.

To convert your legacy deployment configurations to the current format, follow these steps:

1. Navigate to the following directory:

od-home/bin

2. Convert your legacy deployment configurations to the current format by entering one of the following commands at the prompt, depending on what kind of conversion you want to perform:

```
iwodcfg2xml options input_file output_file (single file conversions) or
iwodcfg2xml options -dir dir [inExt [outExt]] (single directory conversions) or
iwodcfg2xml options -deep dir [inExt [outExt]] (nested directory conversions)
```

where the following variables apply:

- options one or more of the options described later in this section.
- input_file the name of the legacy deployment configuration file.
- output_file the name of the newly-converted file.
- dir the directory where the legacy files reside.

- inExt an alternative file extension to the default .cfg for legacy files.
- out Ext an alternative file extension to the default .xml for converted files.

The iwodcfg2xml command-line tool only can be issued on the host where the OpenDeploy base server software is installed. This command can be issued by anyone regardless of whether they hold an Administrator or User role. There are no authentication or authorization checks on individuals issuing this command.

Single File Conversions

You can convert a single legacy deployment configuration to the current format by using the iwodcfg2xml command in conjunction with an input file (the legacy file) and an output file (the converted file). The output file must include the .xml extension to be run on OpenDeploy.

For example, if you had a legacy deployment configuration reports.cfg at the following location:

you could convert this file by navigating to the following directory:

```
od-home/bin
```

and entering the following command at the prompt:

iwodcfg2xml od-home/conf/reports.cfg od-home/conf/reports.xml

Single Directory Conversions

You can convert an entire directory of legacy deployment configurations to the current format using the iwodcfg2xml command in conjunction with the -dir option and a directory path and name. This command only converts files at the top level of the directory. Files in subdirectories are ignored.

For example, if you wanted to convert all the legacy files in the following directory:

you would enter the following command at the prompt:



iwodcfg2xml -dir C:\legacy files

The converted files are also contained in the source directory. You cannot redirect converted files to another location when you convert entire directories.

By default, the command will look for legacy files with the extension .cfg and convert them to current files with the extension .xml. If your legacy files have a different extension, you can note that by adding the input file extension to the command (inext in the usage example).

For example, if your directory C:\legacy_files contained legacy files with the extension .txt, you would enter the following command at the prompt:

iwodcfg2xml -dir C:\legacy files .txt

You can also specify a different output file extension by adding the output file extension to the command (outExt in the usage example). However, converted files must include the .xml extension to be usable by OpenDeploy.

Nested Directory Conversions

You can convert an entire directory of legacy files, including those contained in its nested subdirectories, to the current format by using the iwodcfg2xml command in conjunction with the -deep option and a directory path and name.

For example, if your directory C:\legacy_files had the following directory structure:

```
C:\legacy_files
C:\legacy_files\western
C:\legacy_files\eastern\new_york
```

you could convert C:\legacy_files and all the legacy files residing in its various subdirectories by entering the following command at the prompt:

iwodcfg2xml -deep C:\legacy_files

Other than this ability to convert subdirectories, nested directory conversions follow the same rules for file names and extensions as single directory conversion.

iwodpasscoder

Encrypts a string, and returns the encrypted string.

Usage

iwodschedactivate

Activates or deactivates a scheduled deployment.



-a "dep name pattern*"

Activates a scheduled deployment with an optional <code>jobID</code> (-j option) using a wild card pattern format. The wild card pattern must be quoted ("sample*"). If no -j option is present, all scheduled deployments beginning with <code>dep_name_pattern</code> will be changed. If a -j option is present, only a scheduled deployment beginning with <code>dep_name_pattern</code> and having a <code>jobID</code> equal to the job identifying number will be changed.

-d deployment

Deactivates a specific scheduled deployment, using the *deployment* and -j *ID* options.

-d "dep name pattern*"

Deactivates a scheduled deployment with an optional job identifying number (-j option), using a wild card format. The selection rules are the same as those stated in the schedule activation description above.

deployment

The name of the deployment configuration.

-j *ID*

Specifies a job. The ID number of the deployment. Each time a deployment runs, that deployment is given a unique ID number. Similarly, when you schedule a deployment, that scheduled deployment is also given a issued a unique ID number. Use the iwodschedget -a command to see all the ID number for your deployment.

iwodschedadd

Adds a schedule for a deployment configuration.

```
iwodschedadd -h | -v
iwodschedadd deployment [-r [n][m|h|d|w]] [-s [n][m|h|d|w]]
[-e [n][m|h|d|w]]]
             -h
                                           Displays help information.
                                           Displays version information.
            deployment
                                           Name of the deployment being scheduled.
                                           Repeat every N minutes, hours, days, or weeks.
             -r
             -s [N][m|h|d|w]
                                           Time from current time to use as start date. The
                                           default is 1 minute from current time when the
                                           command is entered.
             -e [N][m|h|d|w]
                                           Amount of time from current time to use as end date.
                                           The default end time is none. The scheduled
                                           deployment will continue indefinitely.
                                           A numerical value.
            n
                                           Minutes.
            m
            h
                                           Hours.
            d
                                           Days.
                                           Weeks.
            W
```



iwodscheddelete

Deletes an existing scheduled deployment.

Usage

-v Displays version information.

deployment The name of the deployment configuration.

-j *ID*

Specifies a job. The ID number of the deployment. Each time a deployment runs, that deployment is given a unique ID number. Similarly, when you schedule a deployment, that scheduled deployment is also given a issued a unique ID number. Use the iwodschedget -a command to see all the ID number for your deployment.

"dep_name_pattern*"

Deletes schedules based on a wild card name selection, with an optional job identifying number (-j option). The wild card pattern must be quoted ("sample*"). If the optional job identifying number (-j option) is not present, all scheduled deployments beginning with "dep_name_pattern*" will be deleted. If the job identifying number is present, only a scheduled deployment beginning with dep_name_pattern and having a job identifying number equal to the specified value will be deleted.

iwodschedget

Retrieves scheduled deployments from the Open Deploy scheduler database, and reports selected information back to the user.

Usage

```
iwodschedget -h | -v
iwodschedget -a
iwodschedget -d deployment
iwodschedget -o deployment -j ID
             -h
                                            Displays usage information.
                                            Displays version information.
             -a
                                            Gets all schedules. This is the default option.
             -d deployment
                                            Gets all schedules for a particular deployment.
             -o deployment
                                            Gets one schedule. Requires the deployment name
                                            and the deployment ID number.
             deployment
                                            The name of the deployment configuration.
             -j ID
                                            Specifies a job. The ID number of the deployment.
                                            Each time a deployment runs, that deployment is
                                            given a unique ID number. Similarly, when you
                                            schedule a deployment, that scheduled deployment is
                                            also given a issued a unique ID number. Use the -a
```

option to see all the ID number for your deployment.



iwodservergetversion

Displays the version of the OpenDeploy server.

Usage

iwodserverreset

Refreshes the OpenDeploy server to the settings specified in the configurations files that have been modified, such as the base server, receiver, and nodes configuration files. The iwodserverreset command-line tool will not cause the configuration to be refreshed if there are deployments in progress at the time the command is run.

iwodserverreset -h -v -q	
- h	Displays usage information.
- V	Displays version information.
- q	Disables messages generated when there are active deployments in progress at the time iwodserverreset is run.

iwodserverstatus

Displays the status of the OpenDeploy server, including its registry port and the number of active deployments.

Usage

iwodserverstatus [-h -v -q]	
- h	Displays help information.
- V	Displays version information.
- q	Omits displaying the number of active deployments.

iwodstart

Starts an OpenDeploy deployment task.

```
iwodstart -h | -v
iwodstart deployment [-async] [-inst instance] [-k "key=value"]+ [-sim]
[-V (normal | verbose)]
            -h
                                          Displays usage information.
            - V
                                          Displays version information.
            deployment
                                          Name of the deployment to start.
                                          Runs iwodstart command asynchronously. The
            -async
                                          iwodstart command will return before the
                                          deployment completes.
            -inst
                                          Includes the deployment instance name instance,
                                          which is a suffix that is appended to the deployment
                                          name. This option is used to create unique deployment
                                          names for each instance of a deployment
                                          configuration.
```



-k arg	Key/value substitution with "key=value" as the arg

value.

-sim Enables the simulated deployment feature.

-V arg Logging level with verbose or normal as args.

The iwodstart command returns the following codes regarding the status of the deployment:

- 0 succeeded
- 1 starting of the deployment failed
- 2 deployment ran and returned a failed status

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